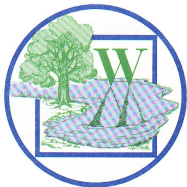


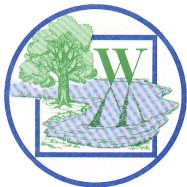
# ■ City of Whitewater, Wisconsin

## Stormwater Management Plan (SWMP) Overview



# ■ Stormwater Management Plan History

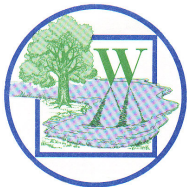
- **December, 2001** \$7,500 DNR Grant Approved (Ordinances)
- **2004** SW/EC Ordinances Adopted
- **April, 2005** SWMP Grant Application Submitted (\$57,500)
- **September, 2005** \$57,500 Grant Application Approved by DNR
- **March, 2006** Stormwater Planning Project Initiated
- **November, 2006** WPDES Stormwater Permit Issued by DNR
- **November, 2007** City Adopts Stormwater Utility
- **March, 2008** 1<sup>st</sup> Mandated Annual Report to DNR
- **April, 2008** Stormwater Plan Completion
- **April, 2008** Grant Submittal to DNR for Pond Construction
- **2008 - 2013** Project Implementation/Construction
- **November, 2011** WPDES Permit Reissuance-New Conditions?



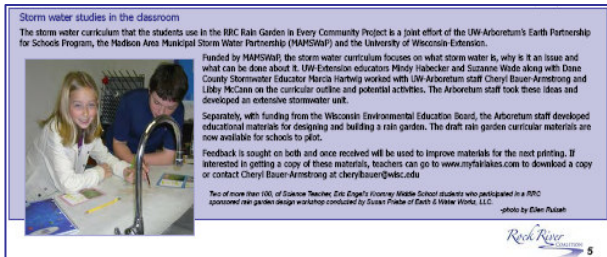
# ■ DNR/EPA Stormwater Permit Requirements



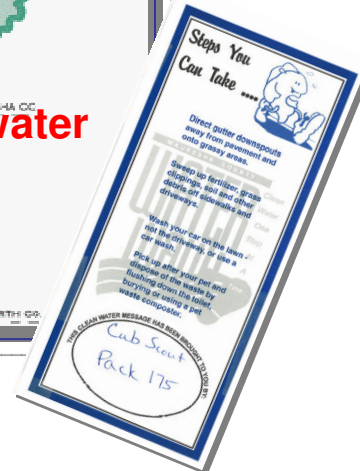
- Public Input/Participation
- Public Information Program
- System Mapping/Illicit Discharge Elimination Program
- Construction Site Erosion/Sediment Controls
- Post Construction Controls
- “Housekeeping” Measures For Public Facilities
- Mandated Sediment Reductions To Waters of the State (DNR)



# Public Information/Education Program Recommends Collaborative Approach



- Rock River Coalition
- Neighboring Rock River Watershed Municipalities
- UW – Extension
- DNR



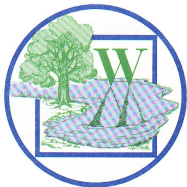
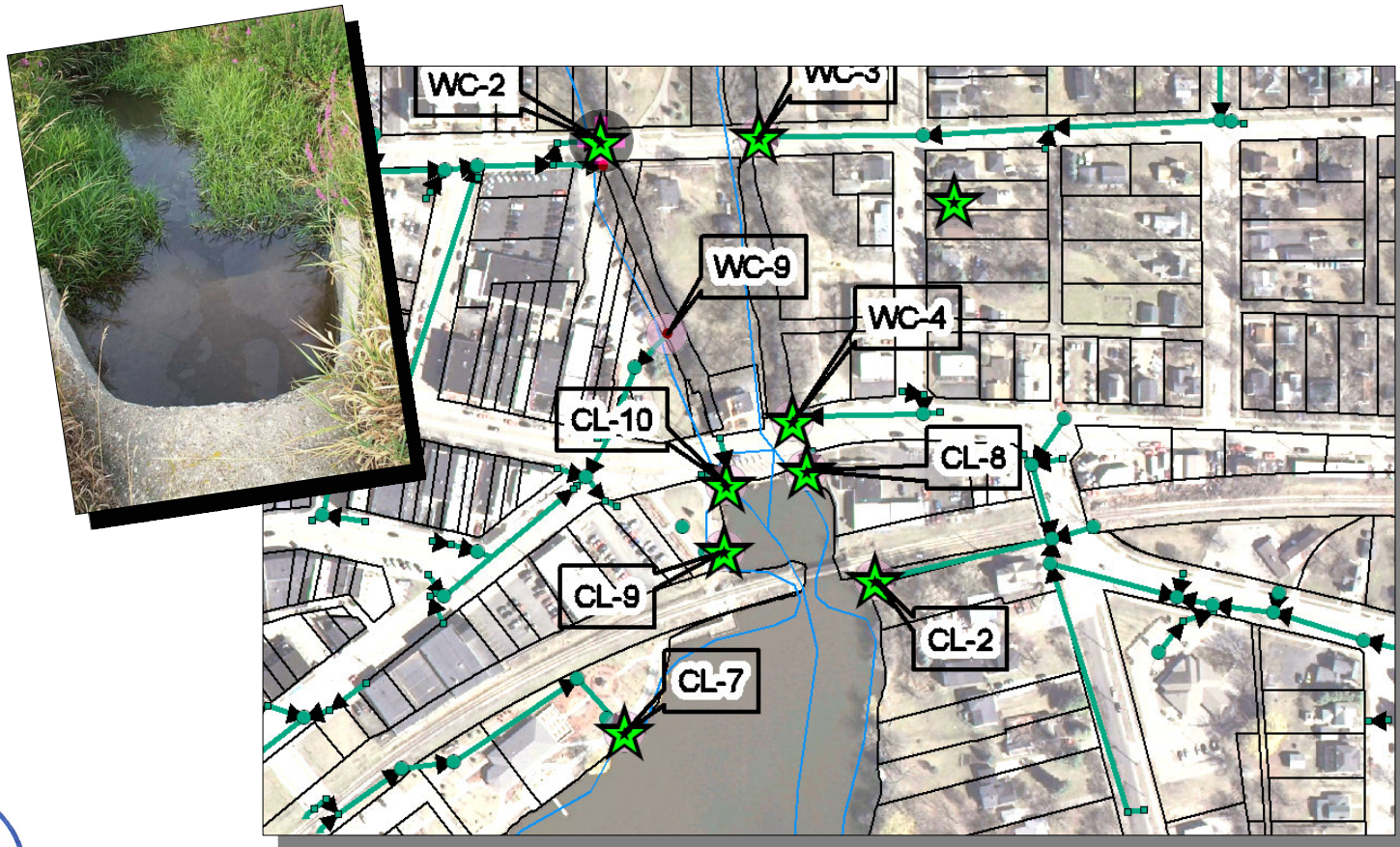
# ■ Required Revisions to Municipal “Housekeeping” Program

- Expanded Street Sweeping Program
- Expanded Staff Education Program
- Expanded Inspection and Maintenance Program
- Enhanced Record Keeping for DNR Reporting



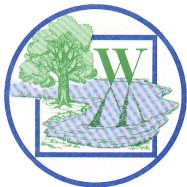


# ■ “Illicit Discharge” Screening Program

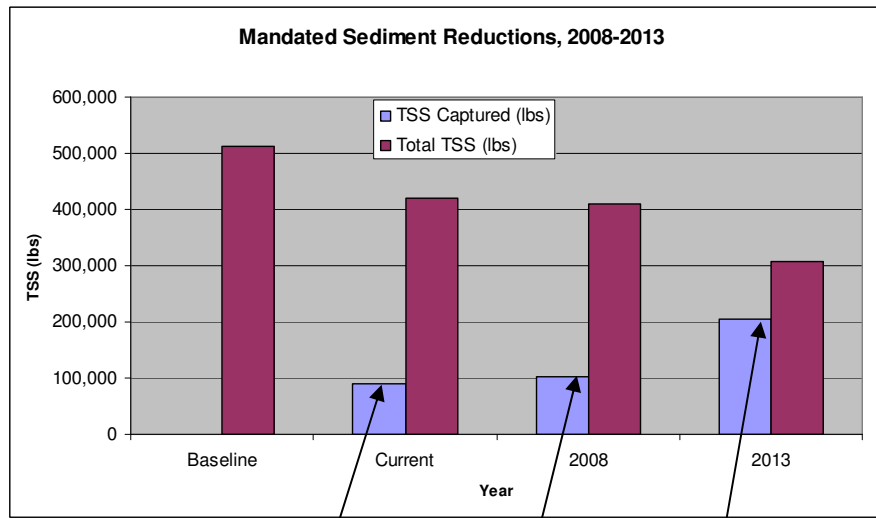


# ■ Ordinance Updates

- City Must Adopt Illicit Discharge and Detection Ordinance
- Minor Update To Post-Construction Ordinance Possible
- Increased Construction Site Inspection and Reporting Required



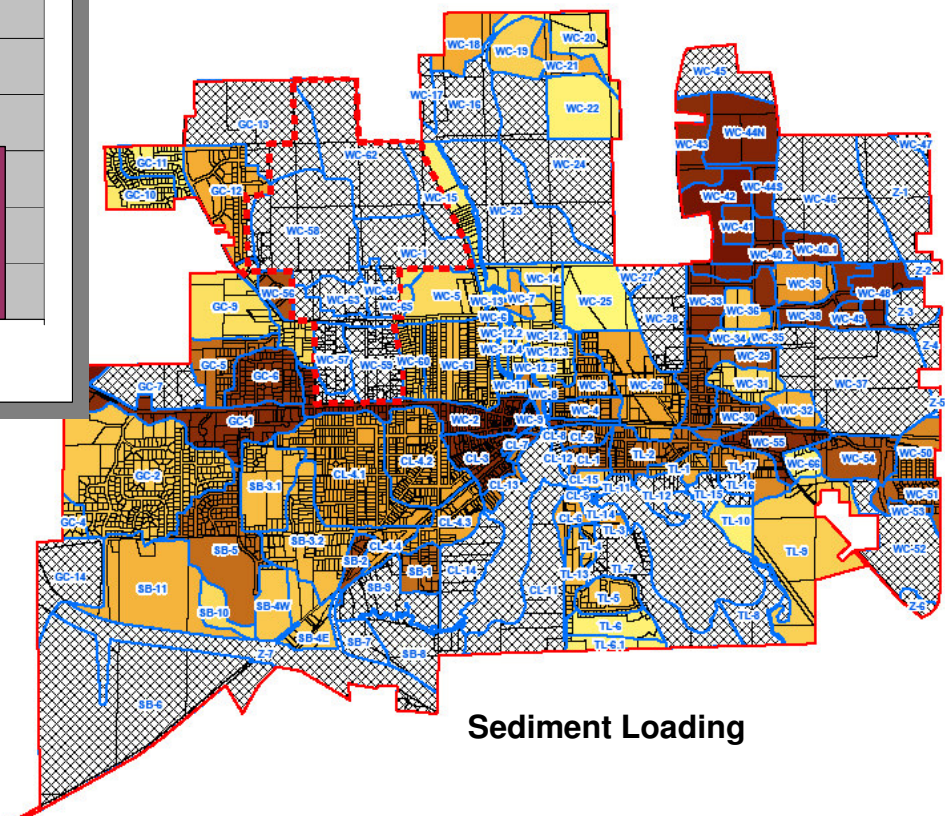
# Mandated Sediment Reduction Requirements



91,000 lb  
Now

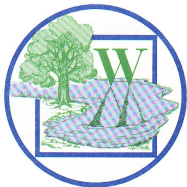
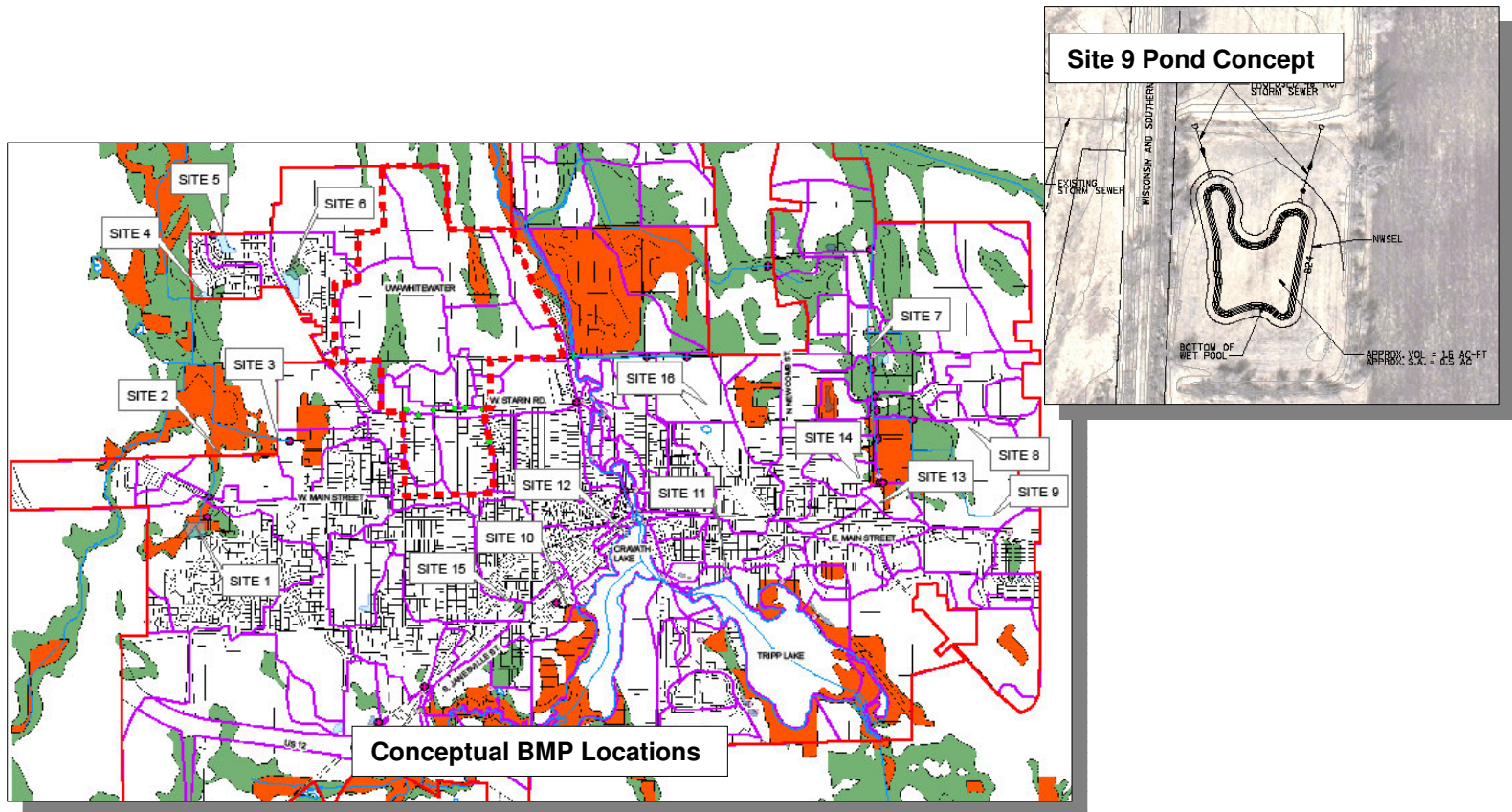
102,000 lb  
by 2009

204,000 lb  
by 2013





# Alternative Pond Locations to Meet Requirements



# ■ Recommended Improvements to Meet 2008 Permit Requirements

- Expand Downtown Street Sweeping Program (From 1,180 curb miles to 1,570 curb miles per year).
- Construct One New Wet Detention Basin (“Site 9”)
- Pursue Cost Sharing For Detention Pond Through DNR UNP Program
- Opinion of Probable Cost:

Pond: \$271,000

Sweeping: \$6,300/Year Additional

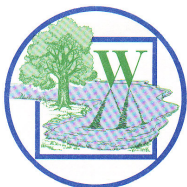


# ■ Recommended Improvements to Meet 2013 Permit Requirements

- Expanded Downtown Street Sweeping Program with Vacuum Sweeper
- Construct 12 New Wet Detention Basins
- Pursue Cost Sharing For Detention Ponds Through DNR UNP Program
- Opinion of Probable Cost:

Ponds: \$2,500,000

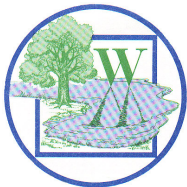
Sweeping: \$34,000/Year Additional



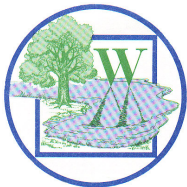
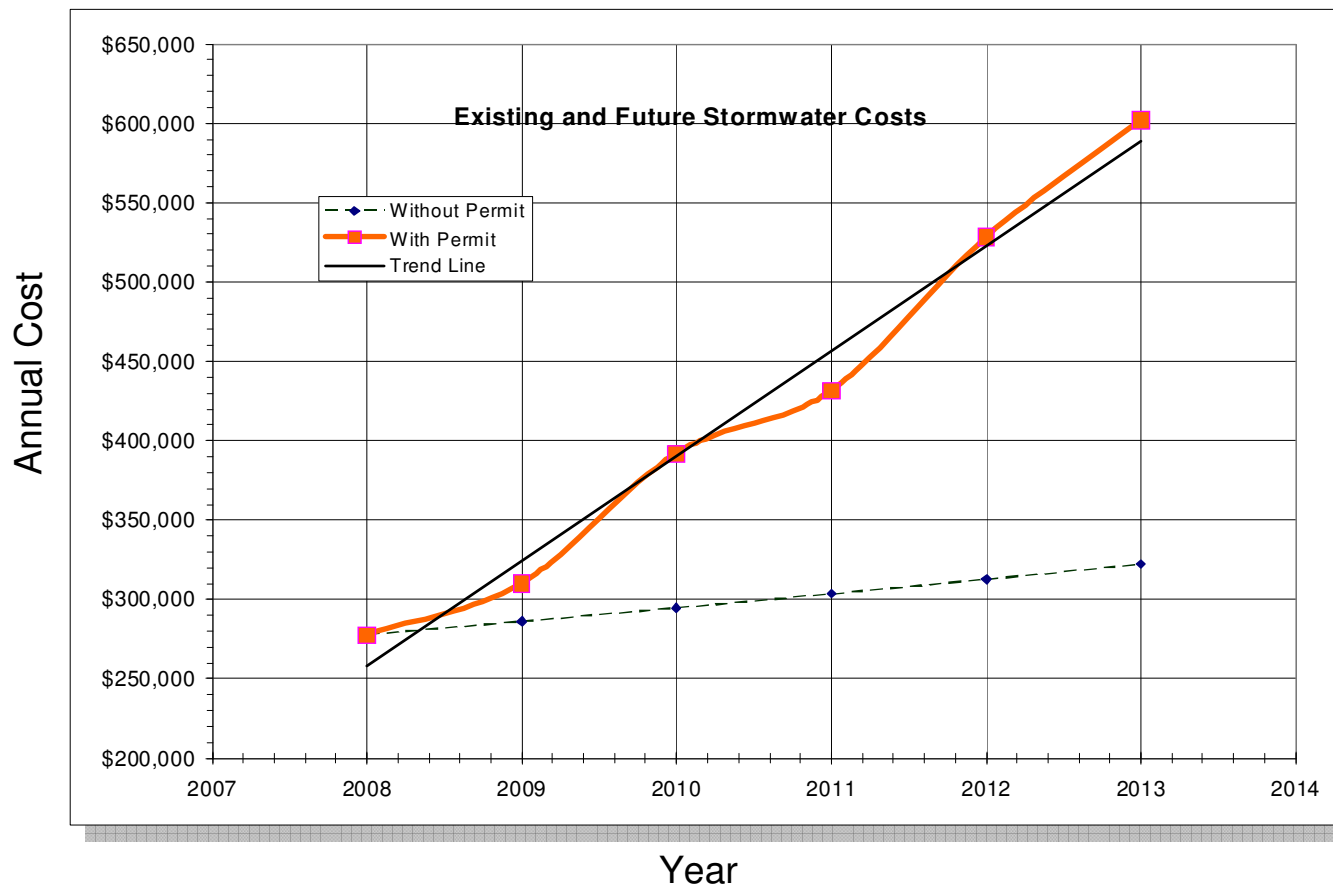
# ■ 5-Year Capital Improvement Plan Sequences Implementation Activities

Capital Improvement	2008				2009				2010				2011				2012				2013			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
West Side Pond								Admin.	Grant	Design	Constr.	Constr.												
Carriage Lane Pond								Admin.	Grant	Design	Constr.	Constr.												
Park Crest - NW				Admin.	Grant	Design	Constr.	Constr.																
Meadowsweet Park				Admin.	Grant	Design	Constr.	Constr.																
National Guard Armory																	Admin.	Grant	Design	Constr.	Constr.			
Technology Drive																	Admin.	Grant	Design	Constr.	Constr.			
Moraine View Dr. North				Admin.	Grant	Design	Constr.	Constr.																
Clay St.												Admin.	Grant	Design	Constr.	Constr.								
E. Main St.												Admin.	Grant	Design	Constr.	Constr.								
WC-30 Outfall												Admin.	Grant	Design	Constr.	Constr.								
Walworth St. Apts.																				Admin.	Grant	Design	Constr.	Constr.
E. Cravath St.																				Admin.	Grant	Design	Constr.	Constr.

Capital Improvement Plan Sequence

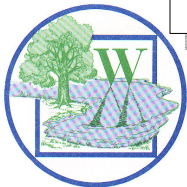
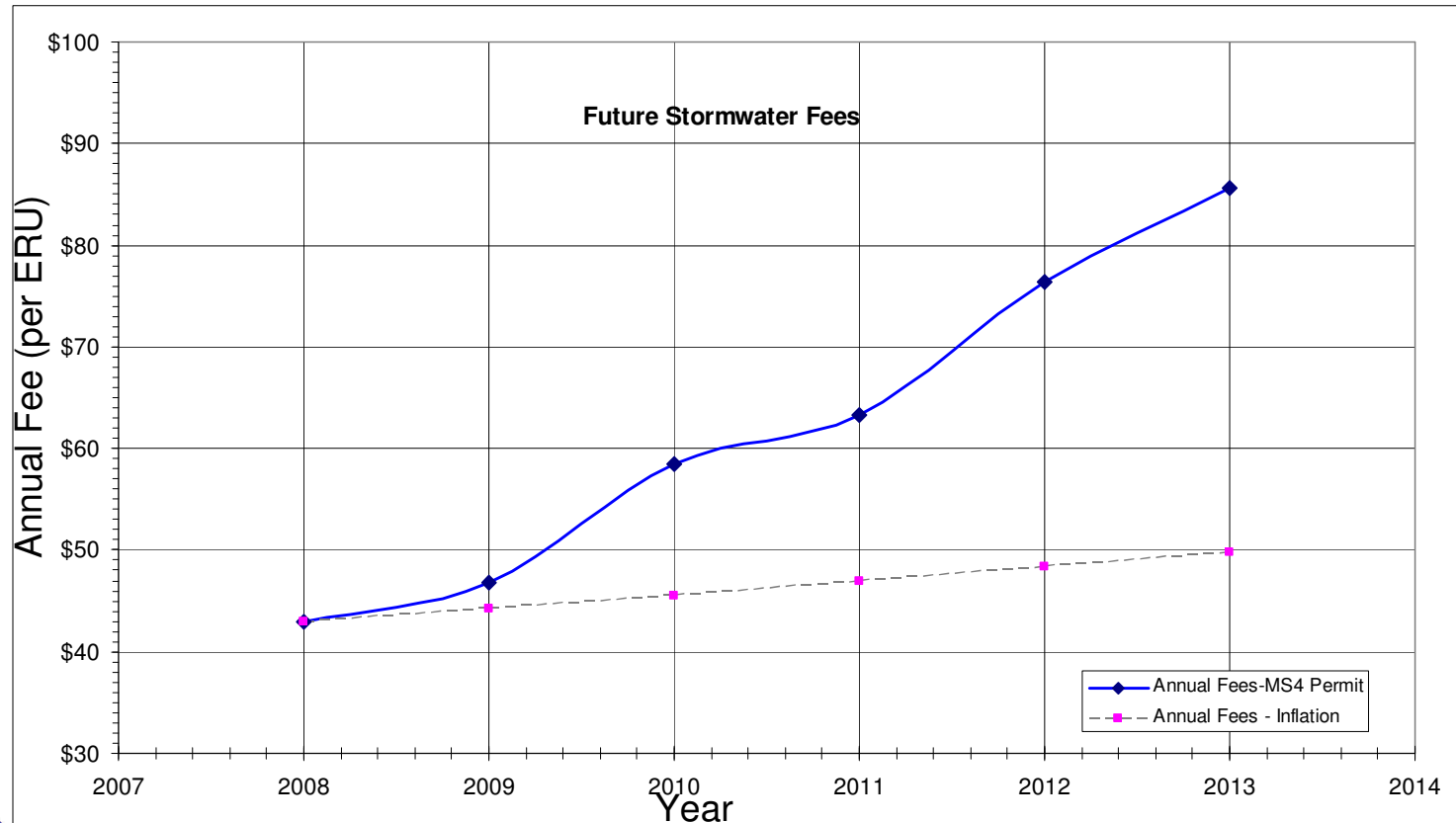


# ■ Mandated Measures Will Increase Annual SW Costs Over Next 5 Years





# ■ Mandated Measures Will Increase Stormwater Fees Over Next 5 Years



# ■ Questions

